UNIVERSITY OF CENTRAL ARKANSAS

ACADEMIC AFFAIRS
INSTITUTIONAL RESEARCH

Majors & SSCH by Department Dashboard Guide

The following guide provides assistance in running and understanding the information that the Argos dashboard returns. The dashboard is located within the Argos reporting tool which can be accessed here: https://it.uca.edu/banner/. The dashboard provides declared major, student semester credit hour (SSCH) production, and degrees awarded information based on Arkansas Division of Higher Education (ADHE) year and department. The figures come from census data reported to ADHE. University definitions can be found here: https://uca.edu/ir/enrollment-definitions/.

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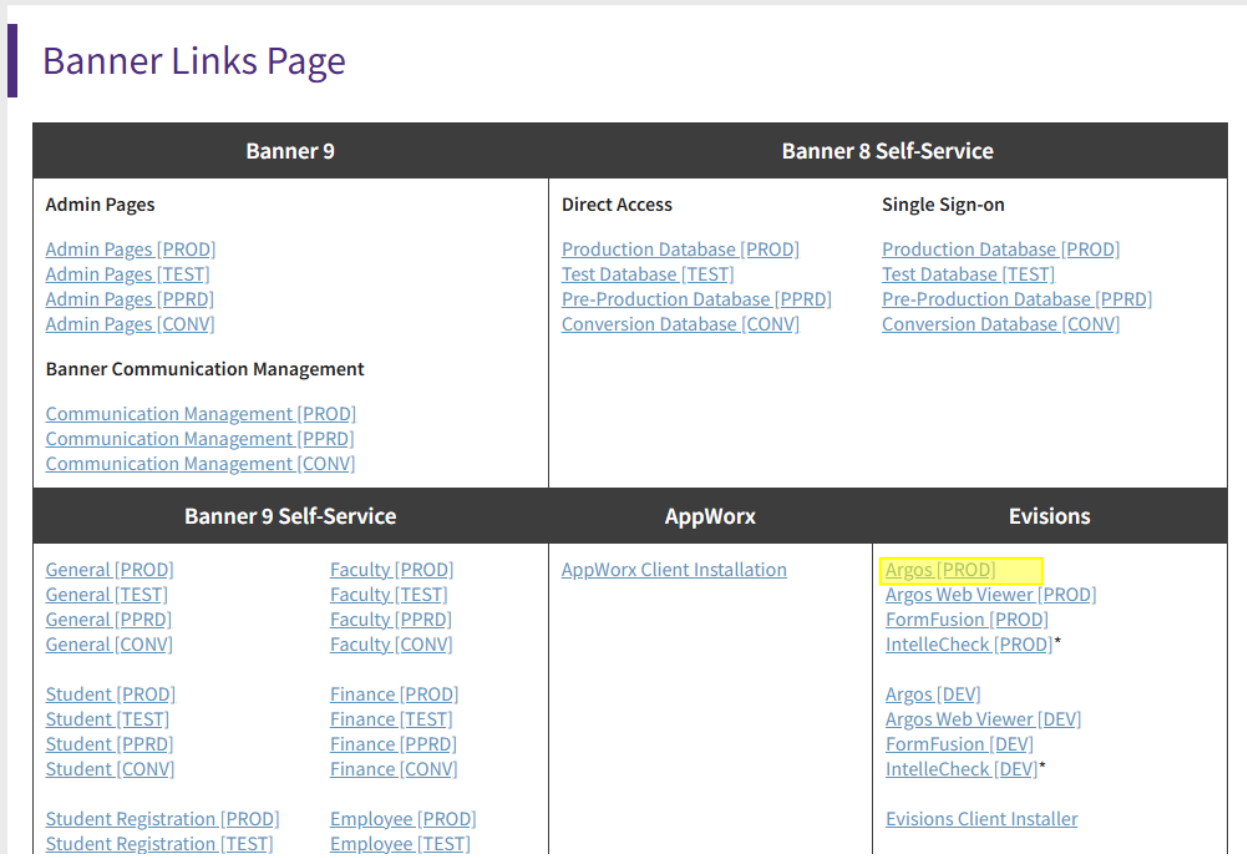
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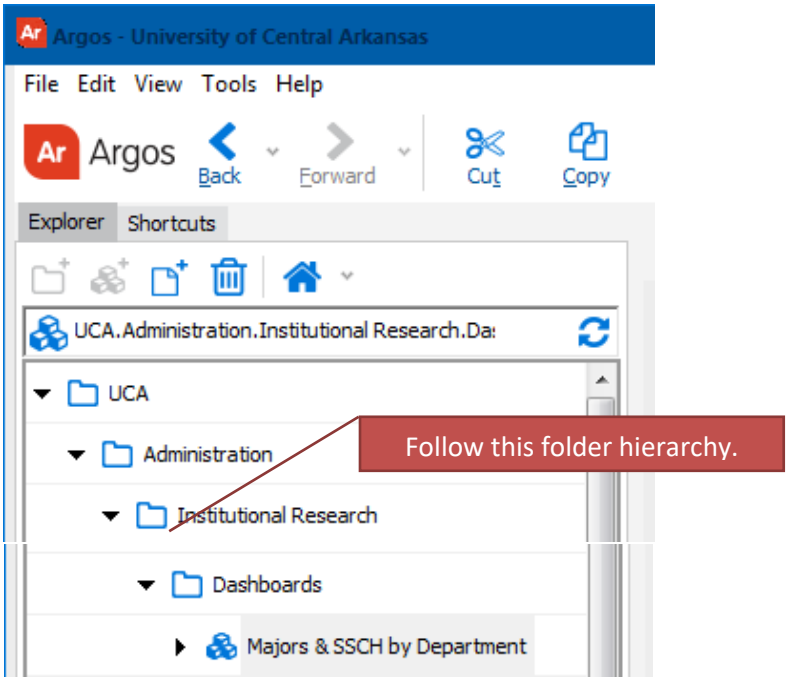
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I. Locating and Accessing the Dashboard

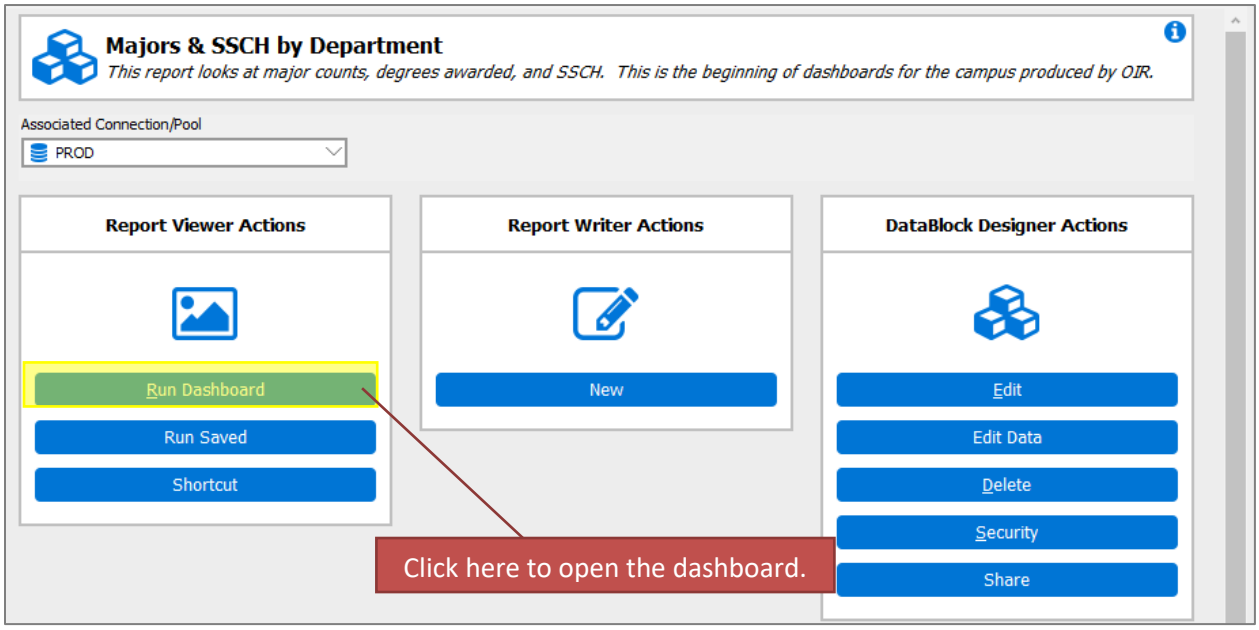
To locate the report navigate to Argos from https://it.uca.edu/banner/. Click the "Argos Production" hyperlink as highlighted below and then log in.



The report is located at *UCA.Administration.Institutional Research.Dashboards.Majors & SSCH by Department.* Navigate through the folder hierarchy to find the report.

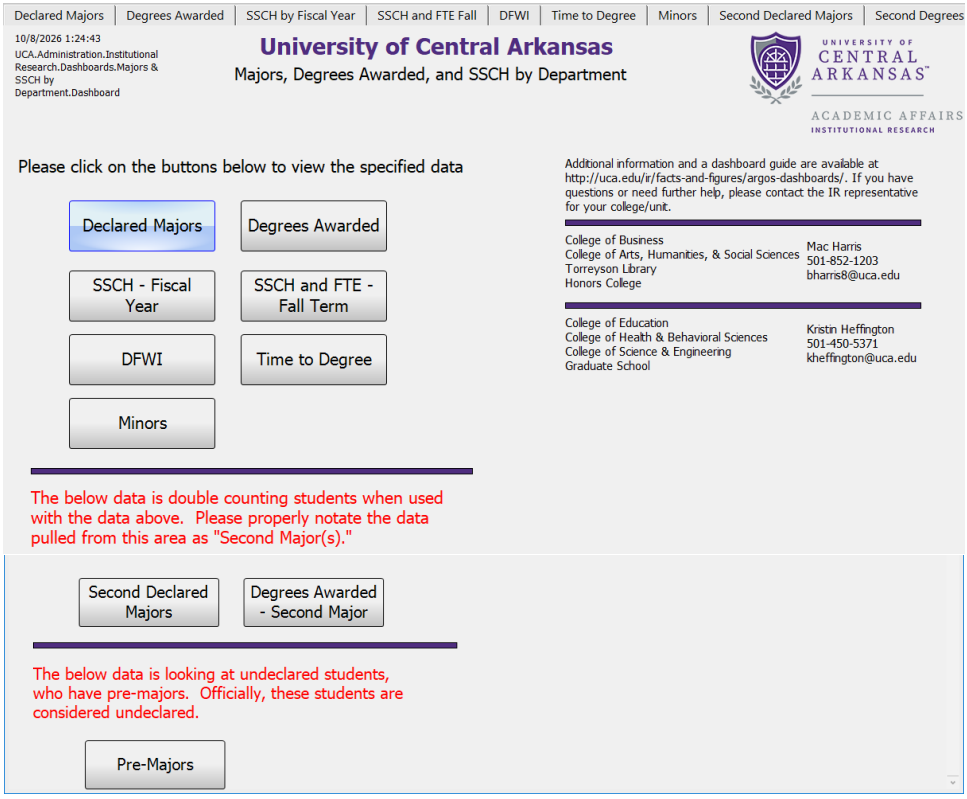


The following screen will appear to the right of the navigation tree. Click the “Run Dashboard” button to see the dashboard.



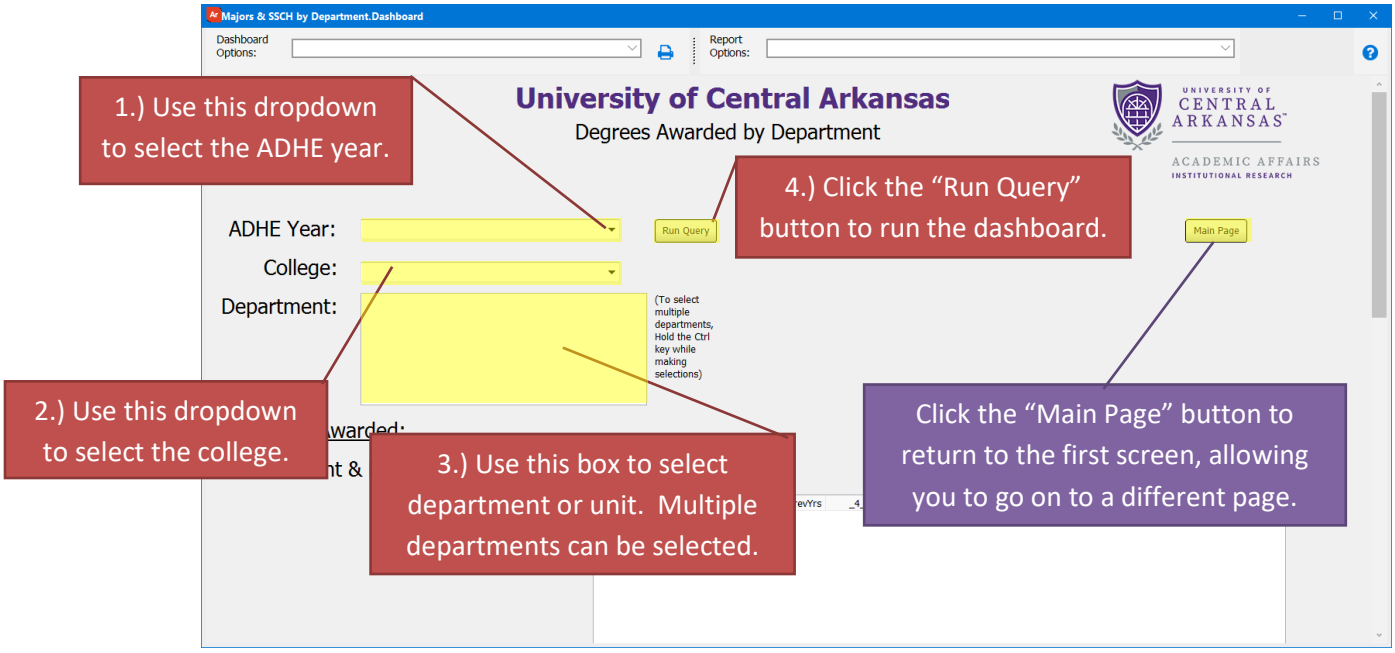
II. Running the Dashboard

After clicking the “Run Dashboard” button, the dashboard’s main page will appear.



Clicking on a button will take you to the specific page or you can select the corresponding tab at the top of the report to select the report page. Once you are on a report page, you can also use the tabs to navigate to other reports. All pages request the user to input the same three variables (ADHE year, college, and department) before data will be displayed. The process for running the report for each page is the same and is shown below.

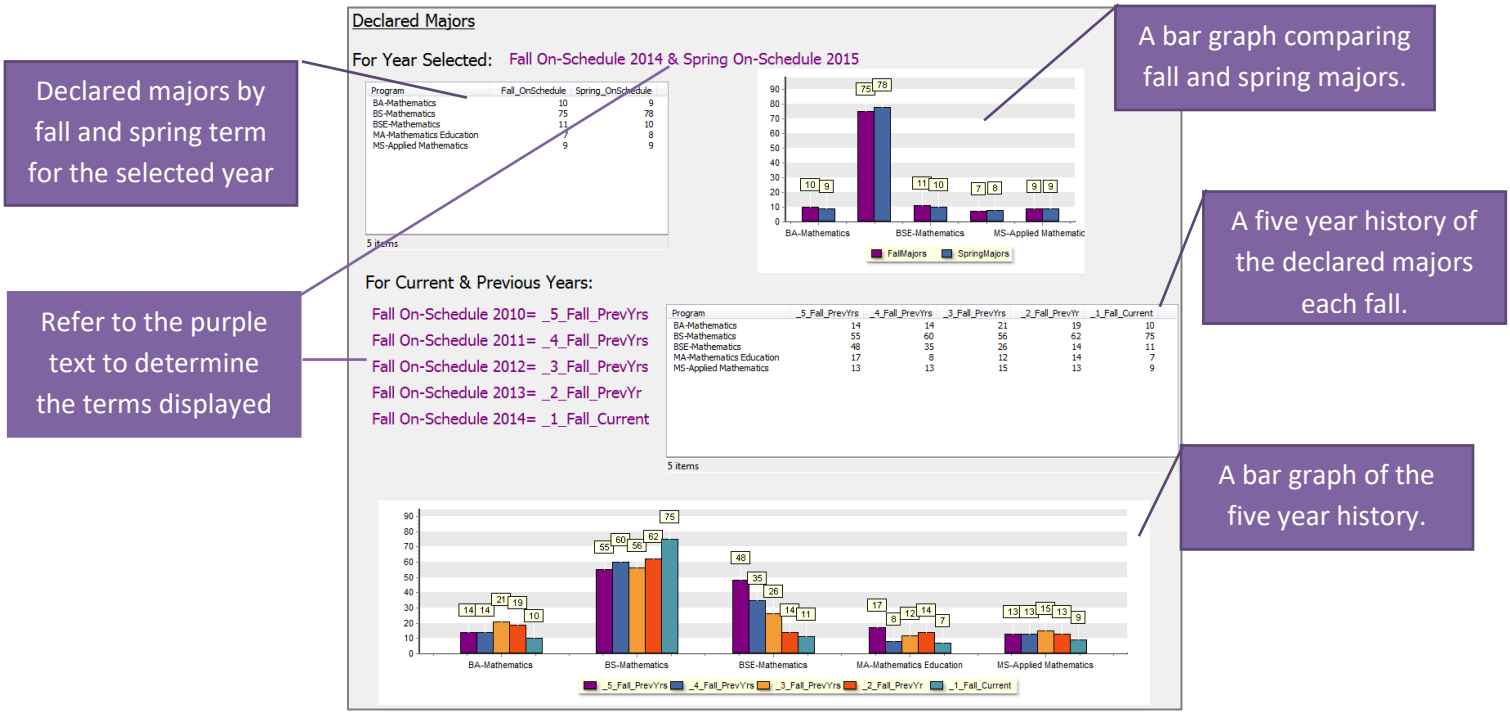
Note: ADHE years correspond closely with fiscal years. The year goes from Summer II to Summer I. For example, ADHE year 2015 includes: Summer II 2014, Fall 2014, Spring 2015 and Summer I 2015.



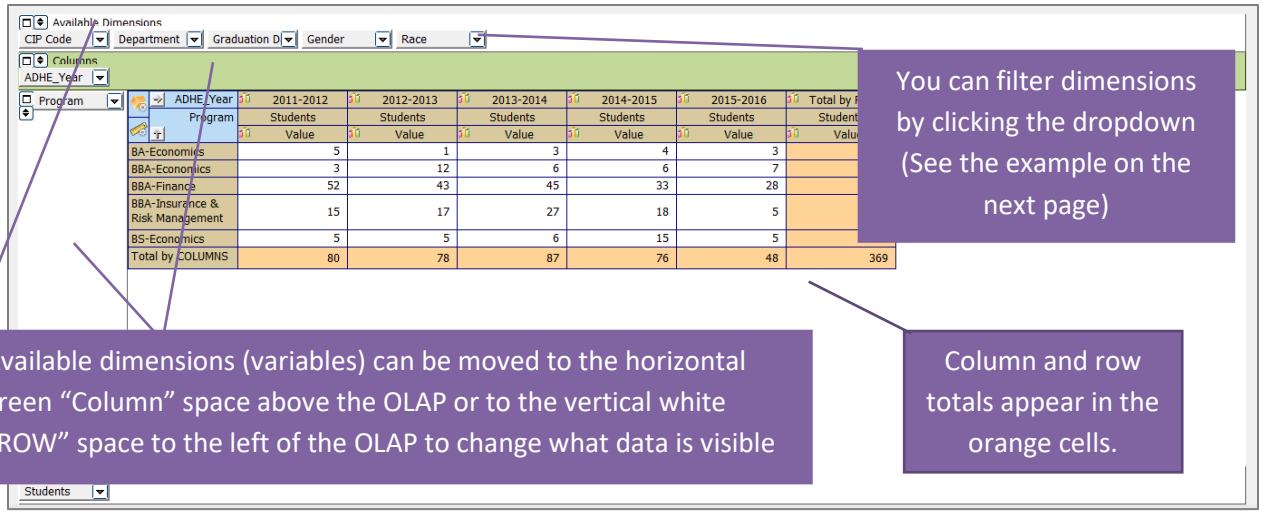
III. Interpreting the Dashboard

A. Majors

Once you run the Majors report, it displays the results below. The top of the report consists of tables and graphs.

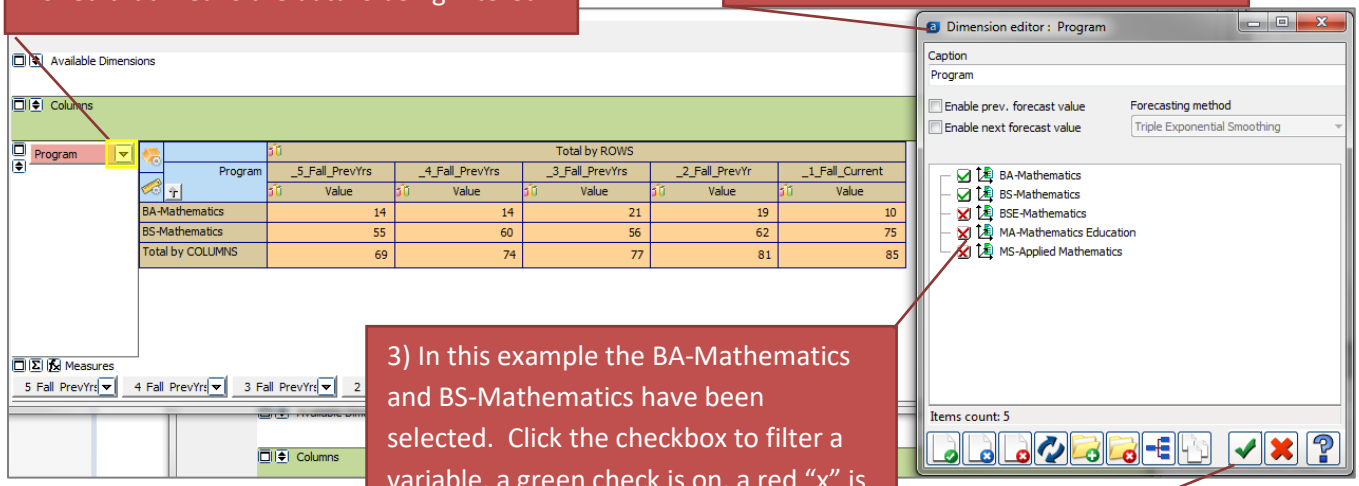


The bottom of the report is an OLAP cube that allows for additional filtering. An OLAP cube is similar to a pivot table in Excel. A short explanation of how to use an OLAP cube is below. (See Section C SSCH-Fiscal Year for more details on how to manipulate the OLAP cubes.)


Available Dimensions
CIP Code
Department
Graduation D
Gender
Race
Columns
ADHE_Year
Program
ADHE_Year
2011-2012
2012-2013
2013-2014
2014-2015
2015-2016
Total by P
Program
Students
Students
Students
Students
Students
Student
Value
Value
Value
Value
Value
Valu
BA-Economics 5 1 3 4 3
BBA-Economics 3 12 6 6 7
BBA-Finance 52 43 45 33 28
BBA-Insurance & Risk Management 15 17 27 18 5
BS-Economics 5 5 6 15 5
Total by COLUMNS 80 78 87 76 48 369
Students
You can filter dimensions by clicking the dropdown (See the example on the next page)
Available dimensions (variables) can be moved to the horizontal green “Column” space above the OLAP or to the vertical white “ROW” space to the left of the OLAP to change what data is visible
Column and row totals appear in the orange cells.

1) In this example, the “Program” dimension has been selected by clicking the dropdown highlighted in yellow. When the dimension is red that means the data is being filtered.

2) The “Dimension Editor” box will appear after the dropdown is selected. This is where dimensions can be filtered.

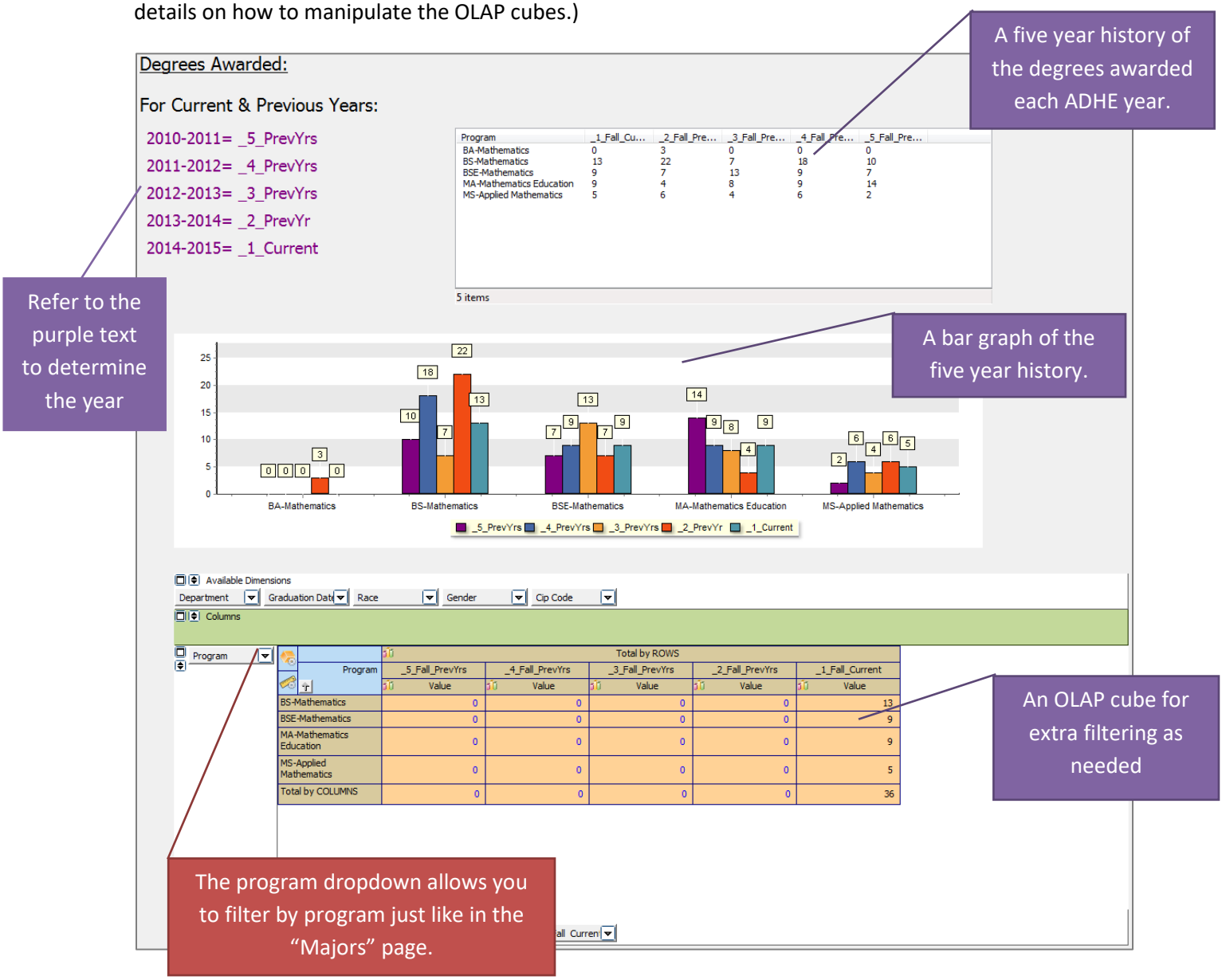


3) In this example the BA-Mathematics and BS-Mathematics have been selected. Click the checkbox to filter a variable, a green check is on, a red “x” is off, and a blue “x” only appears in totals.

4) Once you are done filtering click the green check mark here to save your filters or click the red “X” to cancel.

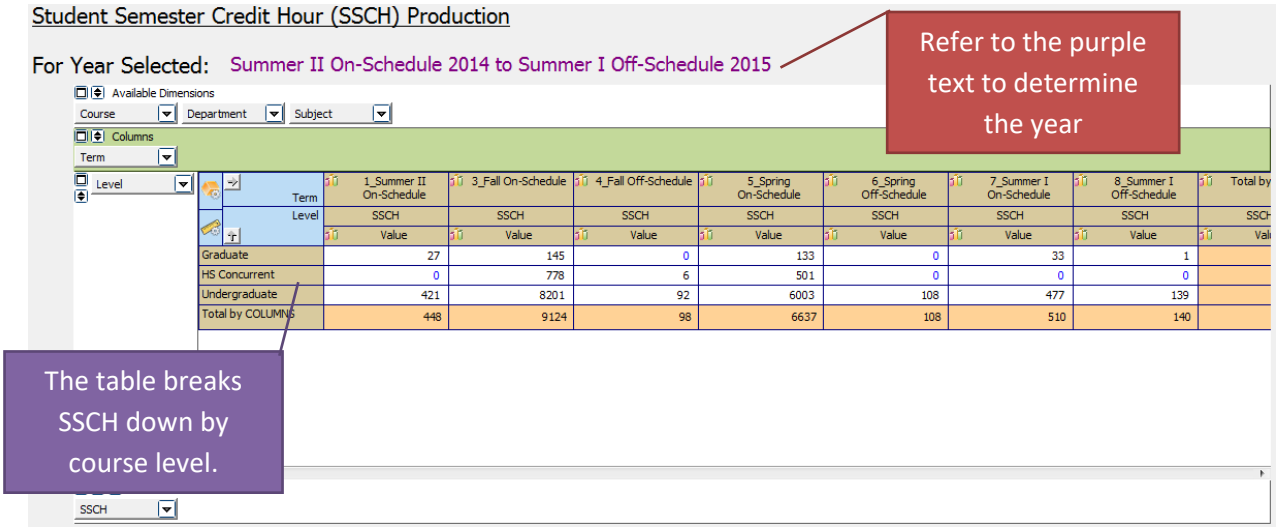
B. Degrees Awarded

This report displays degrees awarded for the years selected. (See Section C SSCH-Fiscal Year for more details on how to manipulate the OLAP cubes.)

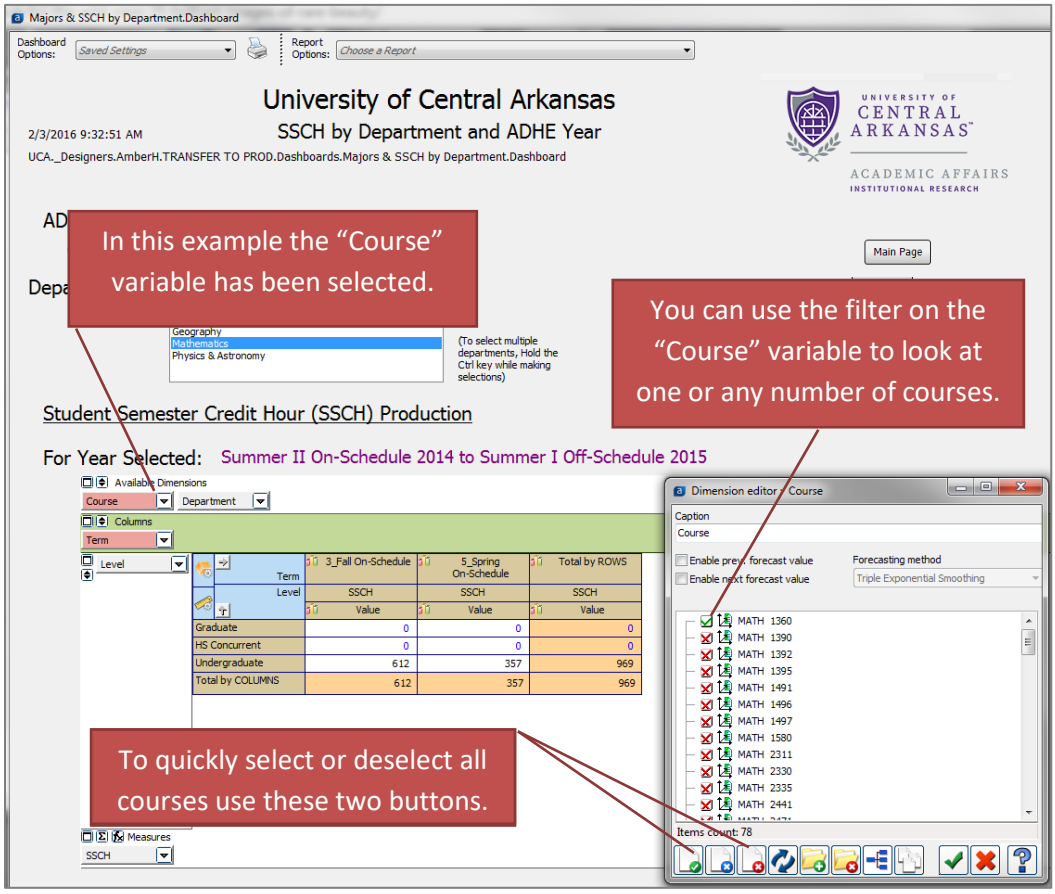


C. SSCH – Fiscal Year

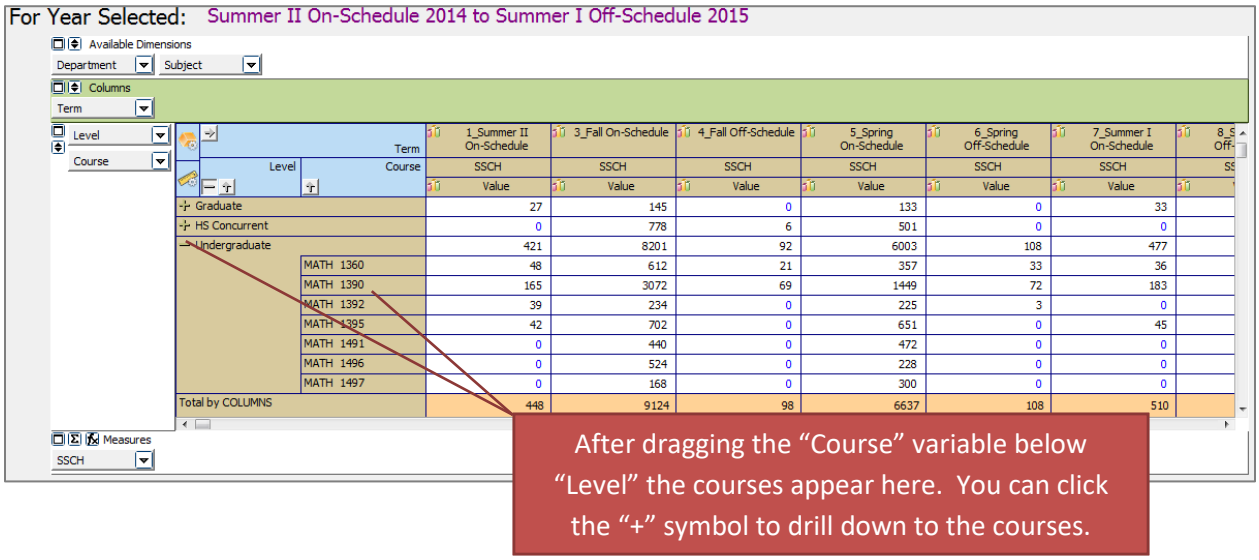
This report displays the SSCH generated over a fiscal year. Just like the other pages, this page requires the user to input the same three variables but the results are only presented in an OLAP cube.



By default, all courses are selected. The below example shows how to select specific courses to appear in the OLAP cube. To filter, adjust which courses have green checks and which have red Xs.

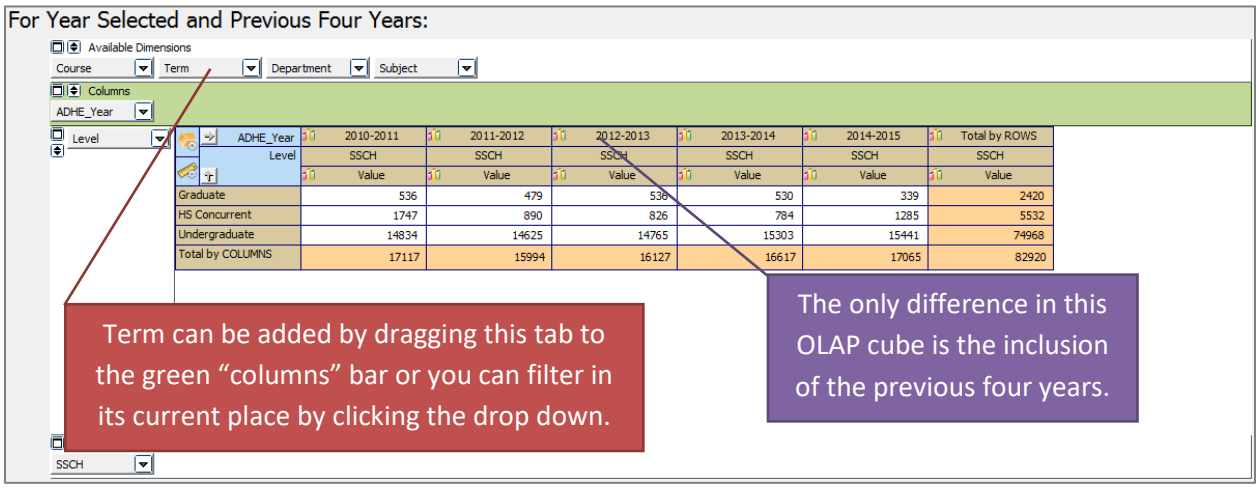


It is also possible to drag and drop different dimensions from one part of the report to another. Below the "Course" dimension has been moved from the "Available Dimensions" to the rows section on the left below "Level". This allows us to see each course for each term and the SSCH generated by that course.



Term	1_Summer II On-Schedule	3_Fall On-Schedule	4_Fall Off-Schedule	5_Spring On-Schedule	6_Spring Off-Schedule	7_Summer I On-Schedule
Level / Course	SSCH Value	SSCH Value	SSCH Value	SSCH Value	SSCH Value	SSCH Value
Graduate	27	145	0	133	0	33
HS Concurrent	0	778	6	501	0	0
Undergraduate	421	8201	92	6003	108	477
MATH 1360	48	612	21	357	33	36
MATH 1390	165	3072	69	1449	72	183
MATH 1392	39	234	0	225	3	0
MATH 1395	42	702	0	651	0	45
MATH 1491	0	440	0	472	0	0
MATH 1496	0	524	0	228	0	0
MATH 1497	0	168	0	300	0	0
Total by COLUMNS	448	9124	98	6637	108	510

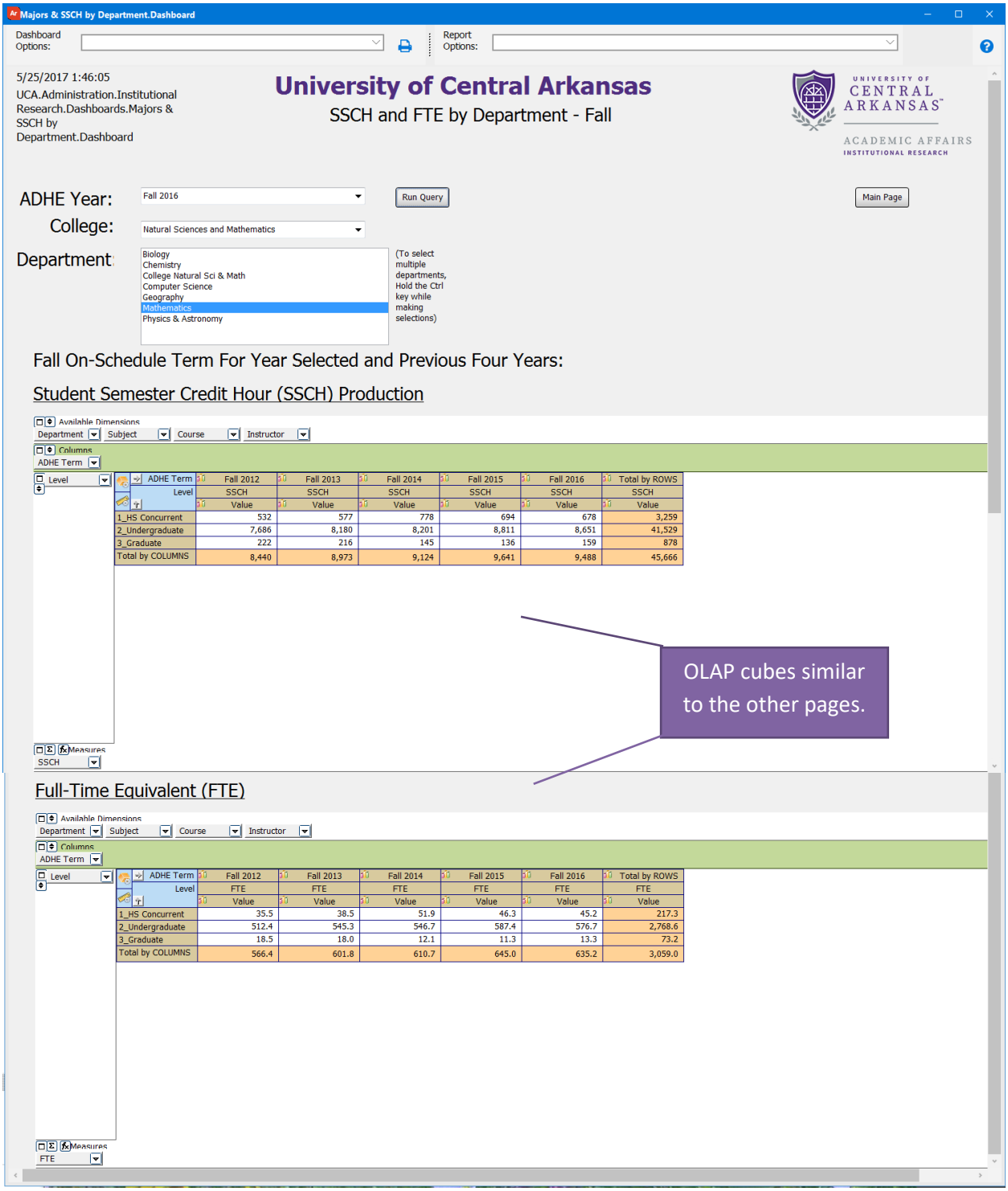
At the bottom of this page there is an OLAP cube that contains data for the selected year and the previous four years.



ADHE_Year	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	Total by ROWS
Level	SSCH Value	SSCH Value	SSCH Value	SSCH Value	SSCH Value	SSCH Value
Graduate	536	479	538	530	339	2420
HS Concurrent	1747	890	826	784	1285	5532
Undergraduate	14834	14625	14765	15303	15441	74968
Total by COLUMNS	17117	15994	16127	16617	17065	82920

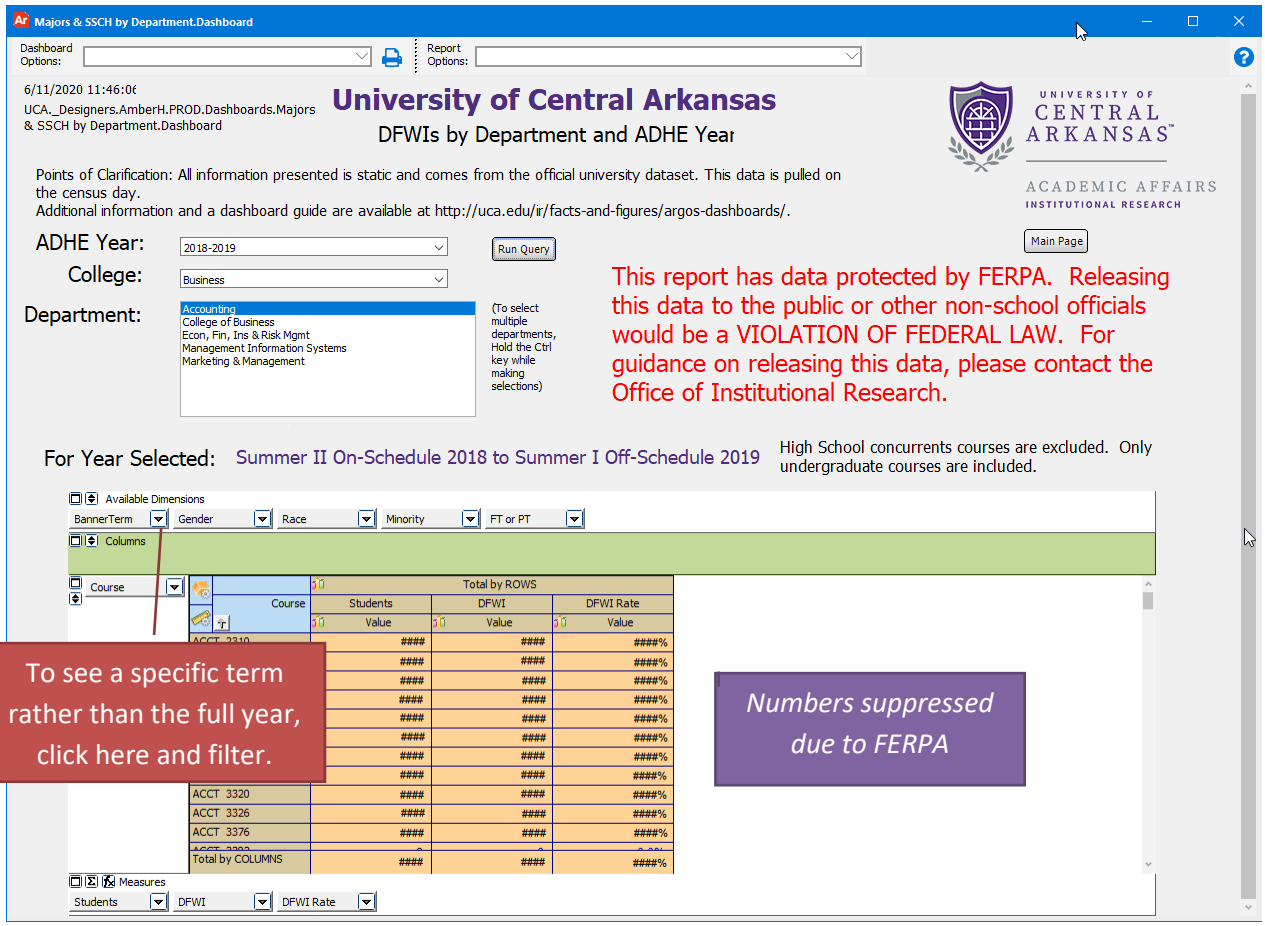
D. SSCH and FTE – Fall Term

This page is similar to SSCH – Fiscal Year but only contains data for the fall term. It also displays full-time equivalency (FTE). The first OLAP cube displays SSCH for the selected and four previous fall term. The second OLAP cube displays FTE for the selected and four previous fall term. (See Section C SSCH-Fiscal Year for more details on how to manipulate the OLAP cubes.)



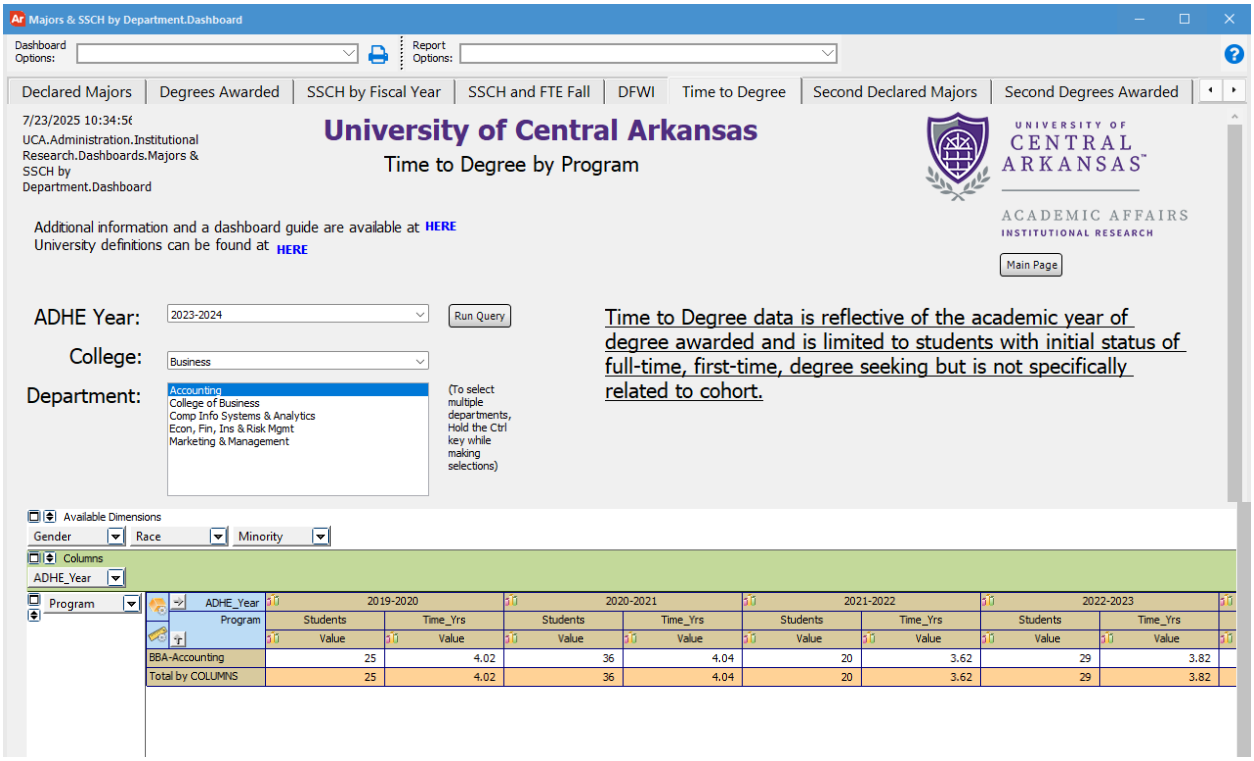
E. DFWI

This page displays total drop/fail/withdraw/incomplete numbers for courses in the year and department(s) selected. Just like the other pages, this page requires the user to input the same three variables but the results are only presented in an OLAP cube. This report has data protected by FERPA. Releasing this data to the public or other non-school officials would be a VIOLATION OF FEDERAL LAW. For guidance on releasing this data, please contact the Office of Institutional Research. (See Section C SSCH-Fiscal Year for more details on how to manipulate the OLAP cubes.)



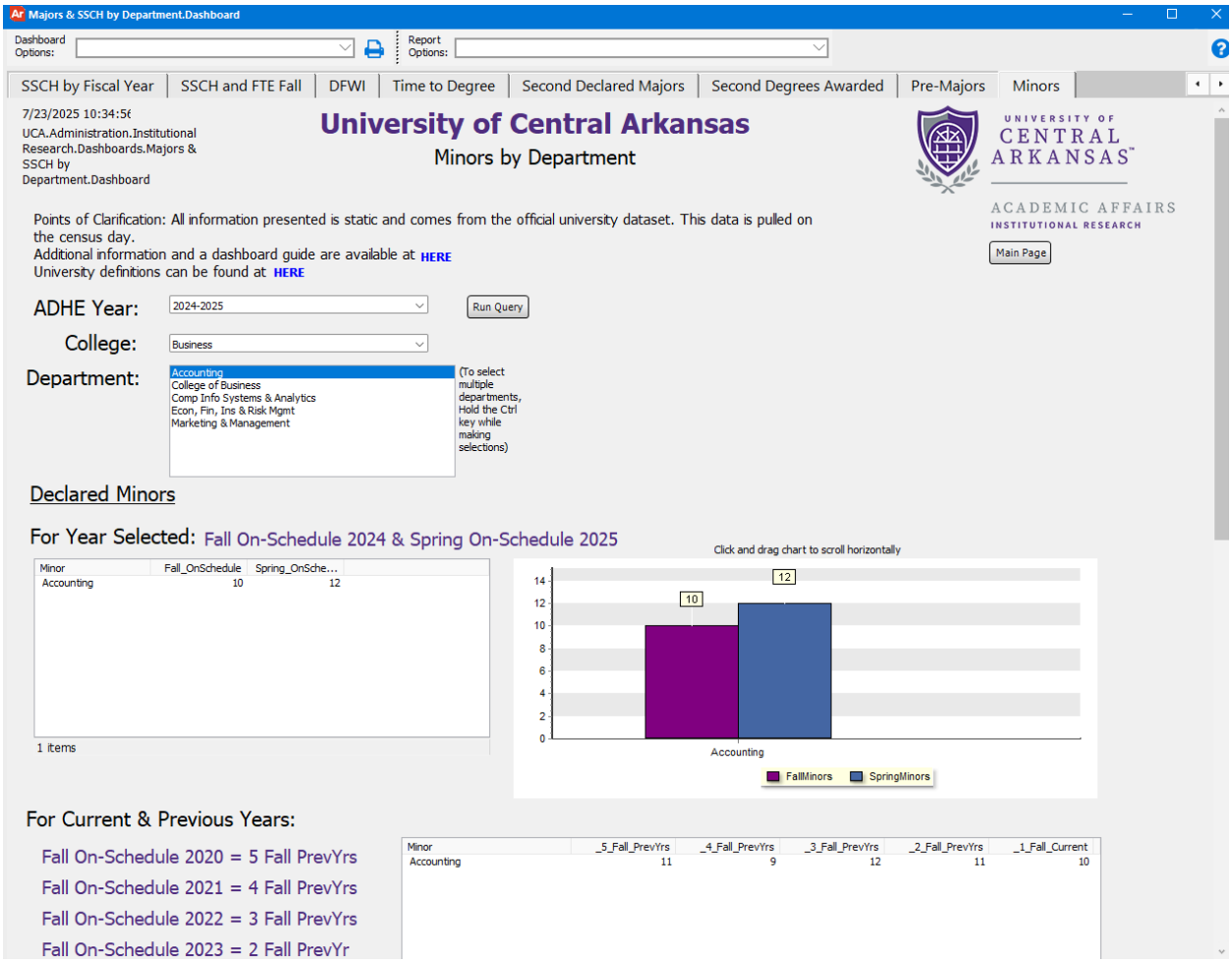
F. Time to Degree

This page displays Time to Degree for programs in the year and department(s) selected. Just like the other pages, this page requires the user to input the same three variables but the results are only presented in an OLAP cube. Time to Degree is calculated in years for each program. This report is only for full-time, first-time degree seeking students. (See Section C SSCH-Fiscal Year for more details on how to manipulate the OLAP cubes.)



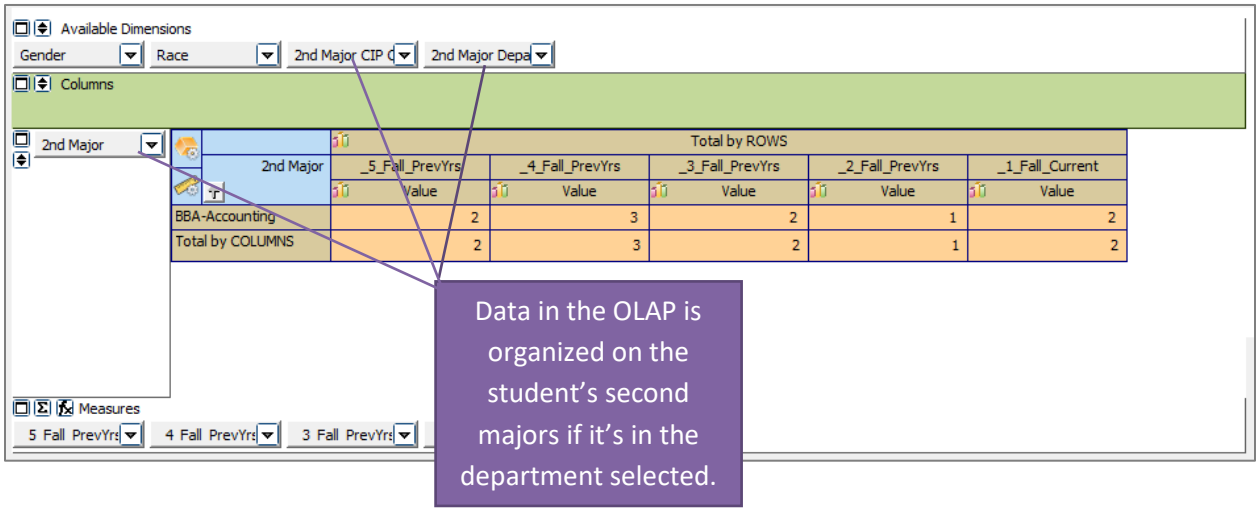
G. Minors

This page displays Minors for programs in the year and department(s) selected. Just like the other pages, this page requires the user to input the same three variables. (See Section C SSCH-Fiscal Year for more details on how to manipulate the OLAP cubes.)



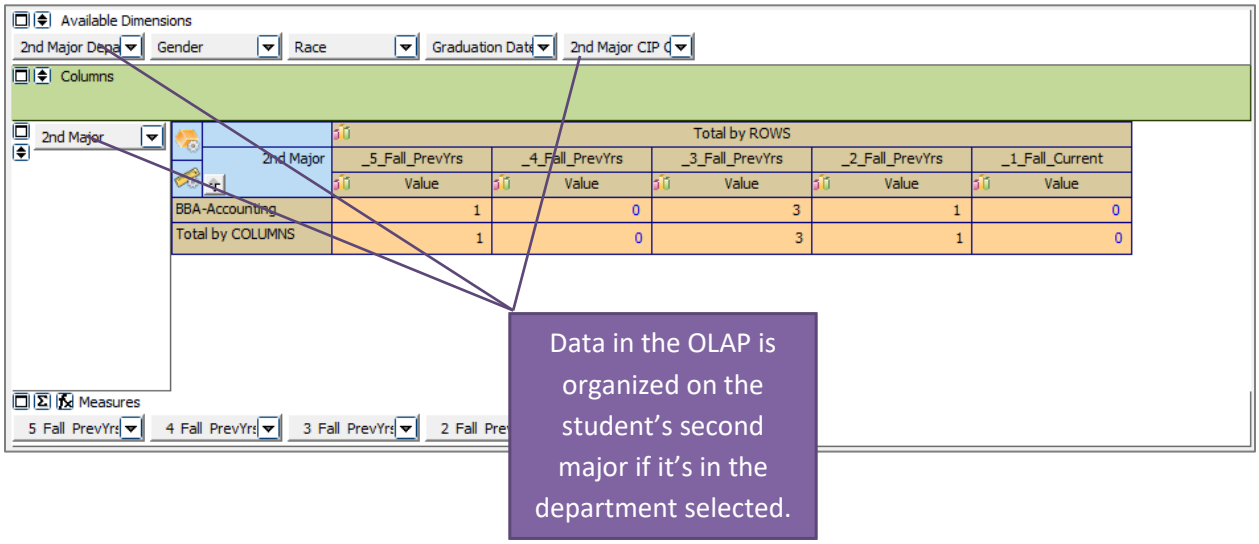
H. Second Declared Majors

The data in the "Second Declared Majors" page is **double counting students** when used with the data above. Please properly notate the data pulled from this area as "Second Major(s)". This page is similar to the "Declared Majors" page. The difference is it includes the count of students whose second major is in the department selected at the top of the screen.



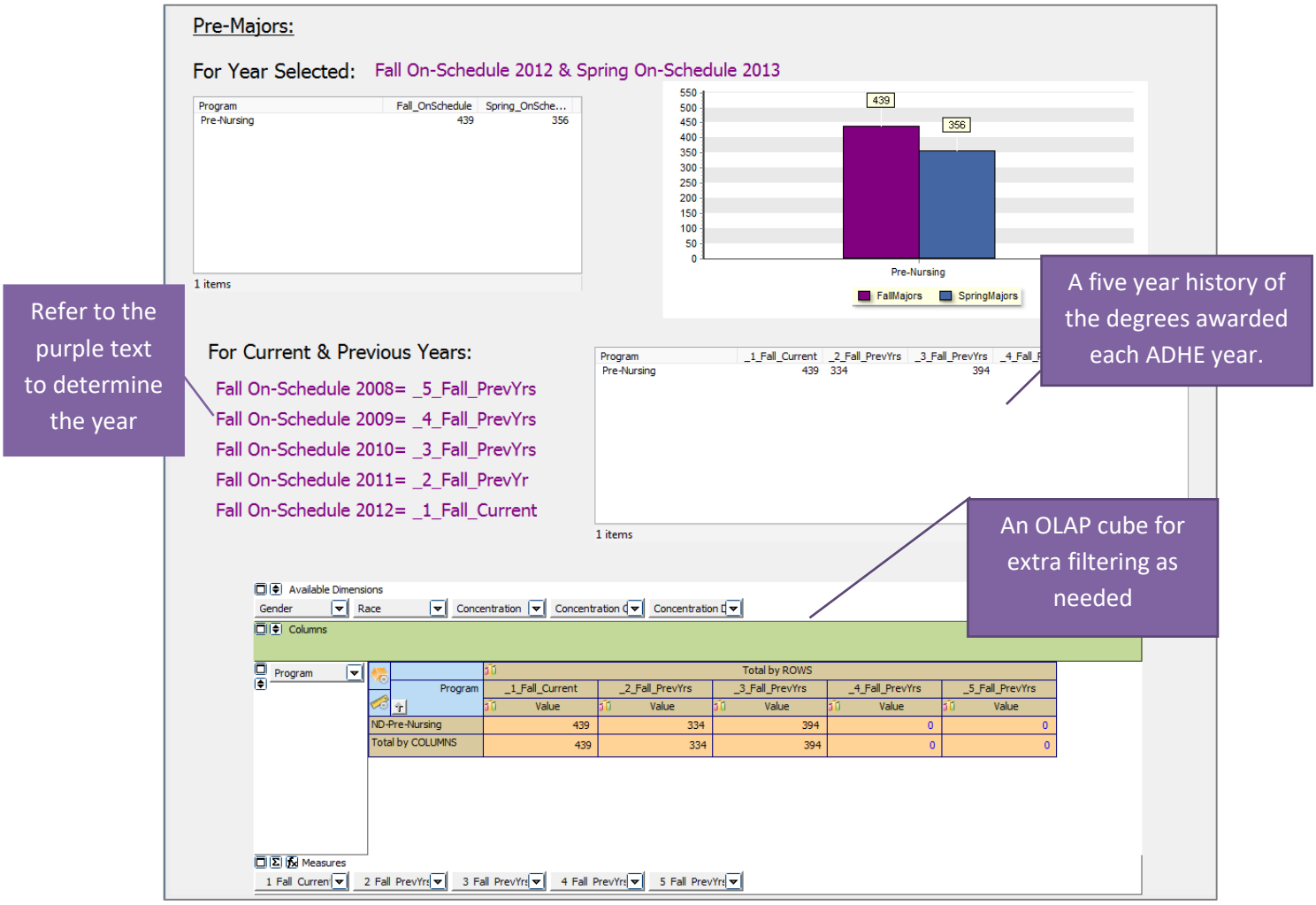
J. Degrees Awarded – Second Major

The data in the "Degrees Awarded – Second Major" page falls under the same stipulations as the "Second Declared Majors" in that the students are **being double counted** and the data needs to be properly notated as "Degrees Awarded – Second Major". This page is similar to the "Degrees Awarded" page except it refers to the student's second major.



I. Pre-Majors

Students that are pre-majors are not officially counted within a department. These students are officially counted as undeclared until the student is admitted into a program. Though not official, pre-major data allows a department and/or college to see the possible future demand on the program.

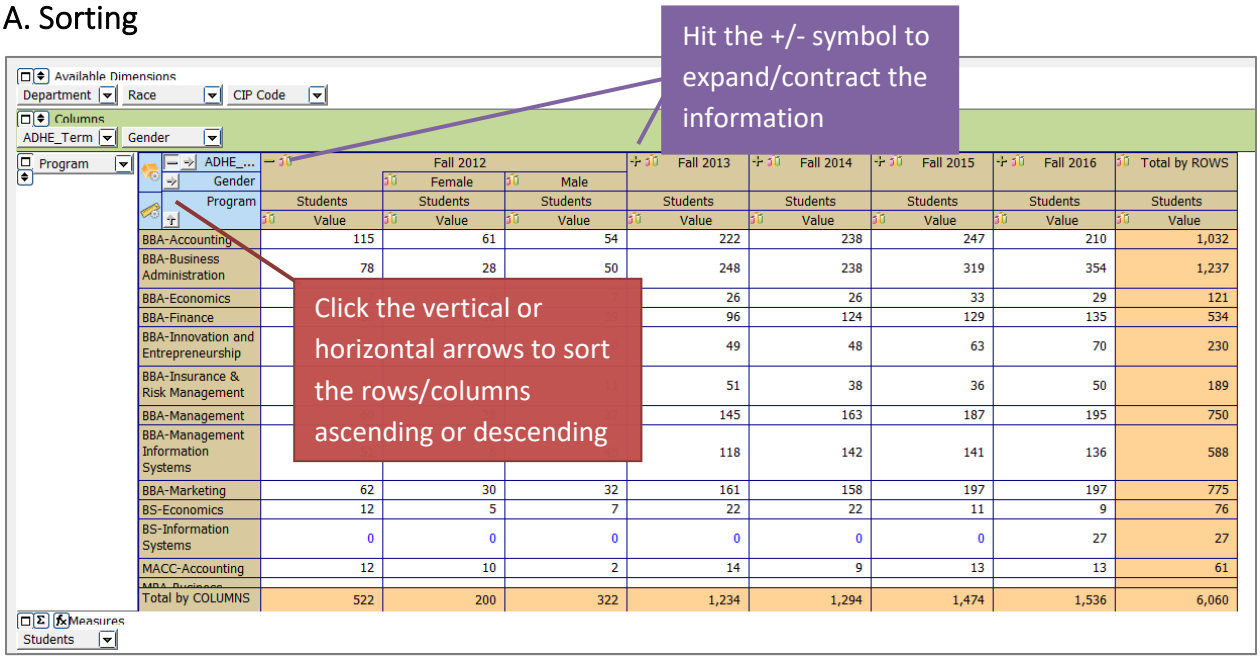


IV. Manipulating OLAP Cubes

OLAP stands for Online Analytical Processing. OLAP cubes are data structures that allow the end user to configure ("slice and dice") the same data into many different views. They are designed to aid in decision-making and better understanding of information. Similar to pivot tables within Excel, the end user can add/remove variables (dimensions) as well as filter and sort the data to drill down into the details or generalize to see the big picture.

Note:
For a more comprehensive explanation of OLAP Cubes please refer to the Argos In-Product Help Guide:
http://webhelp.evisions.com/HelpFiles/Argos/5.3/en/Default.htm#Report%20Viewer%20Guide/OLAP.htm%3FTocPath%3DUser%2520Guides%7CReport%2520Viewer%2520Guide%7COLAP%2520Data%2520Cubes%7C_____0

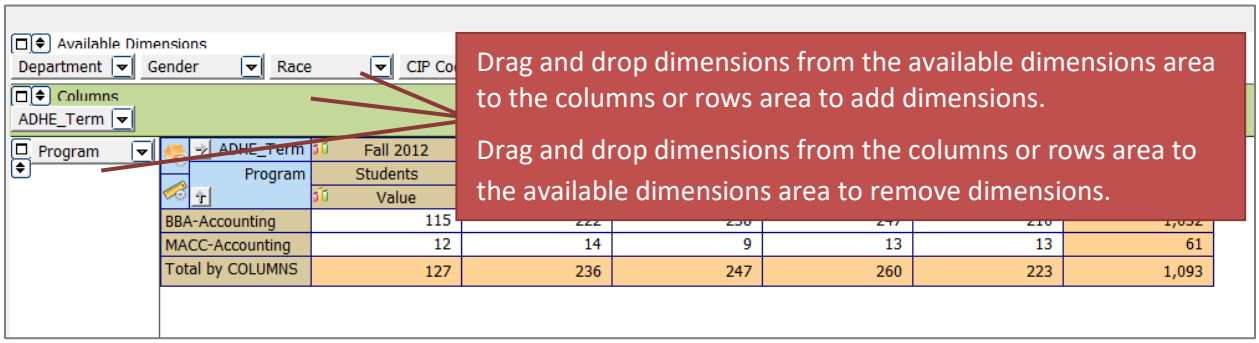
A. Sorting



Program	Fall 2012			Fall 2013	Fall 2014	Fall 2015	Fall 2016	Total by ROWS
Gender		Female	Male					
	Students	Students	Students	Students	Students	Students	Students	Students
	Value	Value	Value	Value	Value	Value	Value	Value
BBA-Accounting	115	61	54	222	238	247	210	1,032
BBA-Business Administration	78	28	50	248	238	319	354	1,237
BBA-Economics				26	26	33	29	121
BBA-Finance				96	124	129	135	534
BBA-Innovation and Entrepreneurship				49	48	63	70	230
BBA-Insurance & Risk Management				51	38	36	50	189
BBA-Management				145	163	187	195	750
BBA-Management Information Systems				118	142	141	136	588
BBA-Marketing	62	30	32	161	158	197	197	775
BS-Economics	12	5	7	22	22	11	9	76
BS-Information Systems	0	0	0	0	0	0	27	27
MACC-Accounting	12	10	2	14	9	13	13	61
Total by COLUMNS	522	200	322	1,234	1,294	1,474	1,536	6,060

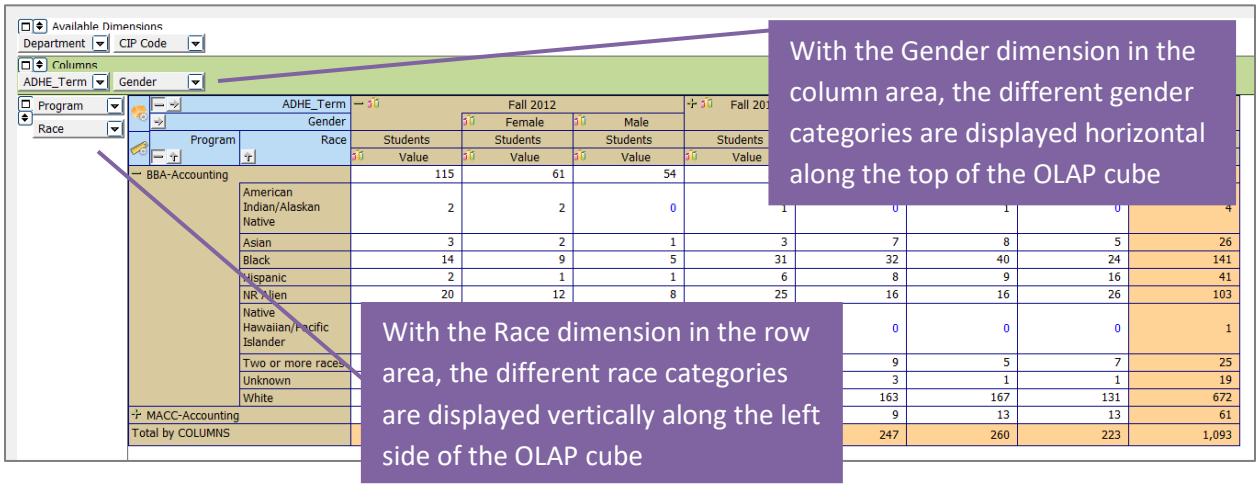
B. Adding/Removing Dimensions

Editing the dimensions of the OLAP cube allows the user to view the data grouped in different ways. In the following example, the OLAP cube first displays Accounting department majors by Fall term. Dragging and dropping the necessary dimensions edits the OLAP cube to display the data split out by race/ethnicity and gender for each Fall term.



ADHE_Term	Fall 2012					
Program	Students					
	Value					
BBA-Accounting	115					
MACC-Accounting	12	14	9	13	13	61
Total by COLUMNS	127	236	247	260	223	1,093

This is what the OLAP cube looks like after moving the gender and race dimensions:



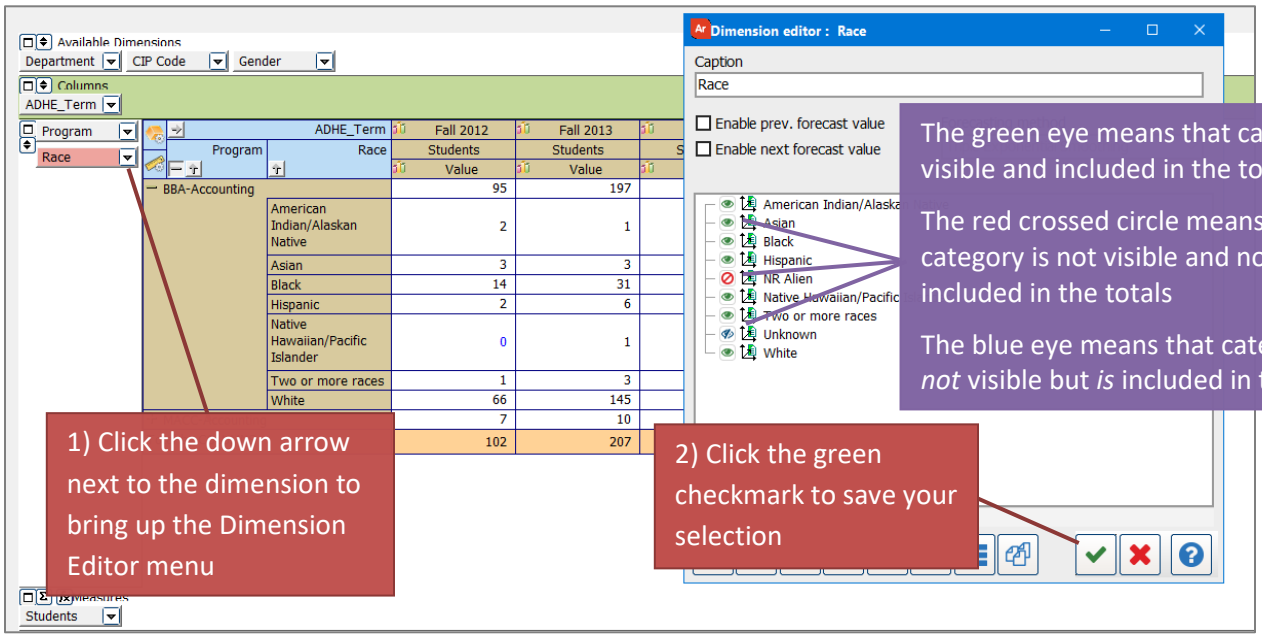
ADHE_Term		Fall 2012			Fall 201				
Gender			Female	Male					
Program	Race	Students	Students	Students	Students				
		Value	Value	Value	Value				
BBA-Accounting		115	61	54					
	American Indian/Alaskan Native	2	2	0	1	0	1	0	4
	Asian	3	2	1	3	7	8	5	26
	Black	14	9	5	31	32	40	24	141
	Hispanic	2	1	1	6	8	9	16	41
	NR Alien	20	12	8	25	16	16	26	103
	Native Hawaiian/Pacific Islander					0	0	0	1
	Two or more races					9	5	7	25
	Unknown					3	1	1	19
	White					163	167	131	672
MACC-Accounting						9	13	13	61
Total by COLUMNS						247	260	223	1,093

C. Filtering

Dimensions can be filtered to show only the user's chosen categories. A dimension **does not** need to be in the column and row areas to be filtered; it can be filtered from the available dimension area as well. For example, the user can click on the department dimension in the available dimensions area and filter it to show only enrollment for their department.

In the following example, the Race dimension is being filtered (the dimension has changed from a gray box to a red box). Within the dimension editor:

- The NR Alien category has been removed (red crossed circle to the left of the category).
  - This category will not be visible in the OLAP cube nor will it be displayed in the totals.
- The Unknown category has been changed to invisible (blue eye to the left of the category) in the dimension editor.
  - This category will not be visible in the OLAP cube but it *will* be displayed in the totals.
- All other categories were left with the default visible option (green eye to the left of the category) in the dimension editor.
  - These categories will be visible in the OLAP cube and will be displayed in the totals.

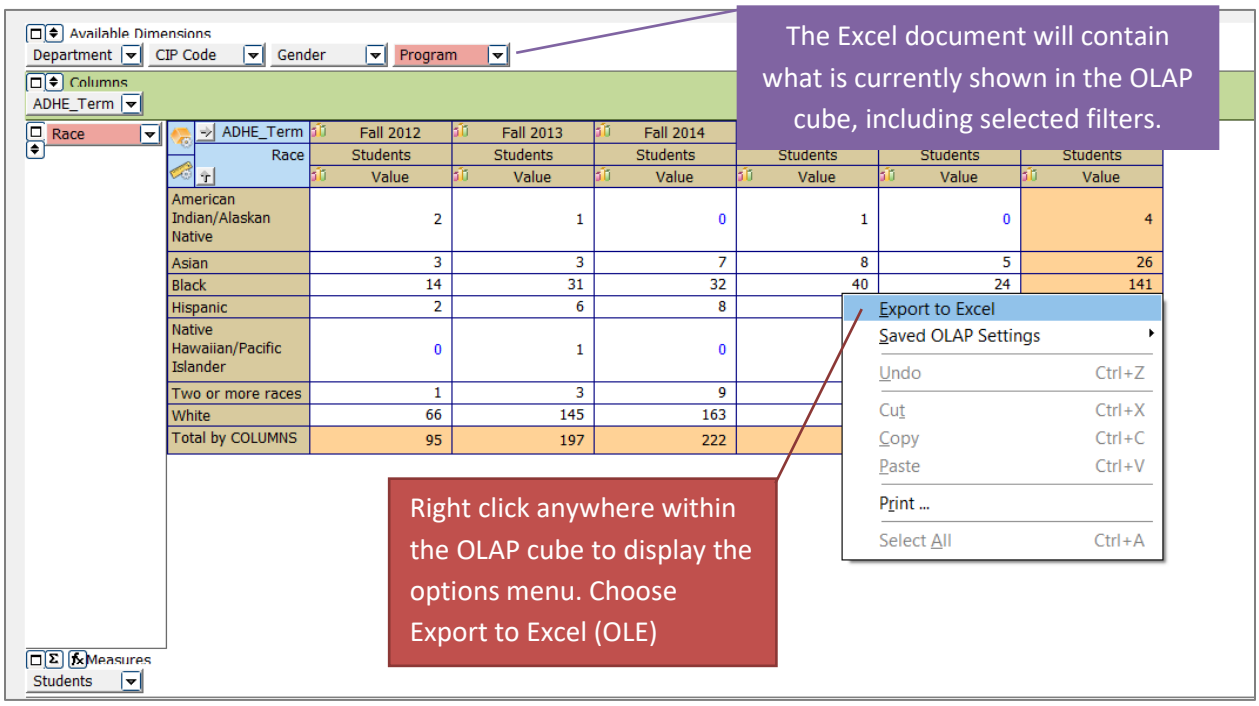


To see examples of filtering an OLAP refer to Argos YouTube videos:

https://youtu.be/kYwXgRRcAuM
https://youtu.be/ALmaNsYLk7M (starting at minute 1:30)

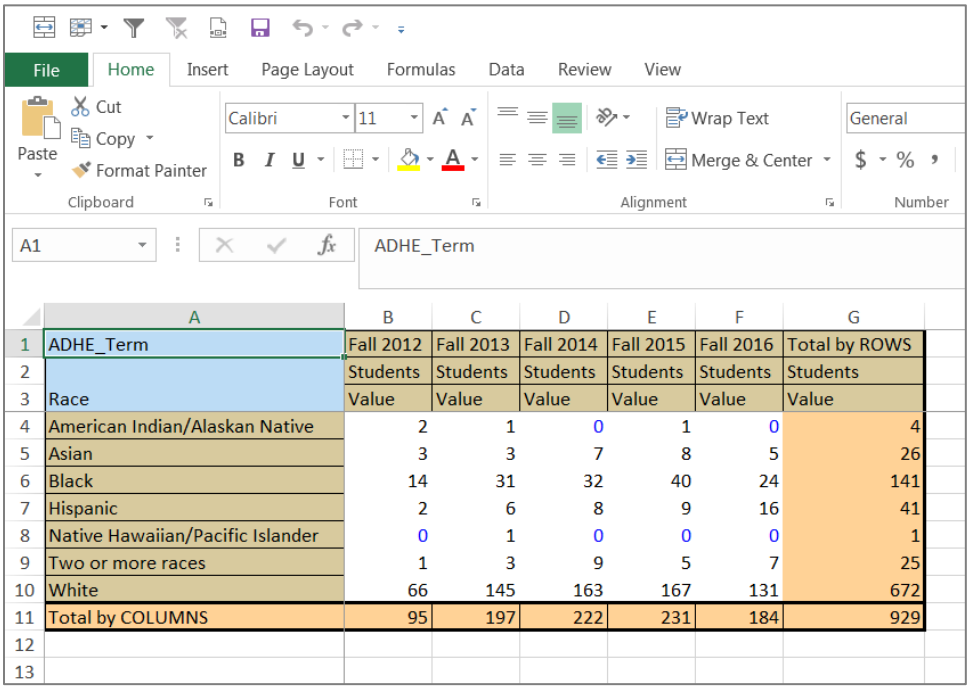
D. Exporting to Excel

After manipulating an OLAP cube, the data can be extracted to an Excel file for further manipulation or for adding into a report.



ADHE_Term	Fall 2012	Fall 2013	Fall 2014			
Race	Students	Students	Students	Students	Students	Students
	Value	Value	Value	Value	Value	Value
American Indian/Alaskan Native	2	1	0	1	0	4
Asian	3	3	7	8	5	26
Black	14	31	32	40	24	141
Hispanic	2	6	8			
Native Hawaiian/Pacific Islander	0	1	0			
Two or more races	1	3	9			
White	66	145	163			
Total by COLUMNS	95	197	222			

The OLAP cube data will display in Excel exactly as it was displayed in the OLAP cube within Argos. The OLAP cube does not import as an image but as a general data format so that it can be manipulated further in Excel as needed.



	A	B	C	D	E	F	G
1	ADHE_Term	Fall 2012	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Total by ROWS
2		Students	Students	Students	Students	Students	Students
3	Race	Value	Value	Value	Value	Value	Value
4	American Indian/Alaskan Native	2	1	0	1	0	4
5	Asian	3	3	7	8	5	26
6	Black	14	31	32	40	24	141
7	Hispanic	2	6	8	9	16	41
8	Native Hawaiian/Pacific Islander	0	1	0	0	0	1
9	Two or more races	1	3	9	5	7	25
10	White	66	145	163	167	131	672
11	Total by COLUMNS	95	197	222	231	184	929
12							
13							